PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference OPP040038KR	FOR FURTHER ACTION	see Form PCT/ISA/220 as well as, where applicable, item 5 below.					
International application No. PCT/KR 2004/003212	(Earliest) Priority Date (day/month 9 December 2003 (09.12.2						
Applicant ELECTRONICS A	ND TELECOMMUNICATIO	ONS RESEARCH INSTITUTE					
This international search report has been according to Article 18. A copy is being	prepared by this International Searce transmitted to the International Bure	ching Authority and is transmitted to the applicant cau.					
This international search report consists	of a total of 4 sheets.						
☐ It is also accompanied by	a copy of each prior art document cit	ted in this report.					
Basis of the report a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.							
to this Authority		of a translation of the international application furn	isiled				
		closed in the international application, see continuation of this first	sheet.				
2. Certain claims were fou	nd unsearchable (see continuation o	of this first sheet)	Ì				
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4. With regard to the title,							
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5. With regard to the abstract,			1				
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IX the text has been established	shed, according to Rule 38.2(b), by the y, within one month from the date of	his Authority as it appears in the continuation of this mailing of this international search report, submit	is first				
6. With regard to the drawings,							
1	gs to be published with the abstract is	s Figure No. 4					
as suggested by the app							
•	as selected by this Authority, because the applicant failed to suggest a figure.						
•	ority, because this figure better chara	icterizes the invention.					
b. none of the figures is to be	published with the abstract.						

Form PCT/ISA/210 (first sheet) (January 2004)

INTERNATIONAL SEARCH REPORT

International application No. PCT/KR 2004/003212

Continuation of first sheet

Continuation No. IV:

Text of the abstract

(Continuation of item 5 of the first sheet)

Disclosed are a method for requesting, generating and distributing a service-specific traffic encryption key in a wireless portable Internet system, an apparatus for the same, and a protocol configuration method for the same. In the present invention, a subscriber station (10) send a Key Request message for requesting a service-specific traffic encryption key to the base station (20,21) using a PKM-REQ MAC message, and a base station (20,21) analyzes the Key Request message to generate the requested service-specific traffic encryption key. Subsequently, the base station (20,21) send a Key Reply message, including the generated service-specific traffic encryption key, to the subscriber station (10) using a PKM-RSP MAC message. If the base station (20,21) fails to generate the key, the base station (20,21) sends a Key Reject message, including a reason for the failure, to the subscriber station (10).

International application No. PCT/KR 2004/003212

IP	C7. H04N	CATION OF SUBJECT MATTER 7/16, H04N 7/173, H04Q 7/22, H04Q 7/3 ternational Patent Classification (IPC) or to both national	8, H04L 29/06 al classification and IPC						
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E V	Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) WPI, EPODOC, Elsevier, IEE, I3E, IEEEXplore, Research Disclosure, INSPEC								
0	. DOCUM	ENTS CONSIDERED TO BE RELEVANT							
7	ategory*	Citation of document, with indication, where appro	opriate, of the relevant passages	Relevant to claim No.					
	Y	IEEE Standard 802.16-2001 for		1-22					
1	ľ	Local and metropolitan area networks	·	4					
		Part 16: Air Interface for Fixed							
	Broadband Wireless Access Systems. 8 April 2002								
		Pages: 170-192							
١		_							
	Y	US 2003/0078061 A1 (KIM) 24 April 2 figures, abstract, paragraphs 47, 49-51	003 (24.04.2003)	1-22					
	☐ Further	documents are listed in the continuation of Box C.	See patent family annex.						
	* Special "A" docume to be of "E" earlier	the international filing date or with the application but cited eory underlying the invention ance; the claimed invention annot be considered to involve unent is taken alone							
	"L" docum cited (special "O" docum	ance; the claimed invention to the an inventive step when the control or more other such							
	"O" document referring to an oral disclosure, use, exhibition or other means "P" document published prior to the international filing date but later than the priority date claimed document is combined with one documents, such combination being skilled in the art "&" document member of the same patents."			patent family					
-,	Date of mailing of		Date of mailing of the international 29 July 2005 (29	ational search report 05 (29.07.2005)					
		mailing address of the ISA/ AT Austrian Patent Office	-Authorized officer MESA PASC	ASIO J.					
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INTERNATIONAL SEARCH REPORT

Information on patent family members

International application No. PCT/KR 2004/003212

Patent document cited In search report	Publication date	Patent family member(s)	Publication date
A US A 20030078		none none	
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